## ABSTRACT OF THE DISCLOSURE

A semiconductor device having a memory array that includes a plurality of substantially parallel word lines, a plurality of substantially parallel bit lines, wherein each of the plurality of the word lines is substantially perpendicular to each of the plurality of the bit lines, a first dummy word line disposed at a periphery of the memory array, wherein the first dummy word line is substantially parallel to the plurality of word lines and overlaps at least two non-adjacent bit lines.

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